

# Neutrino Parallel Session Intro



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**ANL, April 2013**

# Neutrino Subgroups

- **Nu1: Neutrino Oscillations and the Three-Flavor Paradigm**  
*subgroup conveners: Mary Bishai, Karsten Heeger, Patrick Huber*
- **Nu2: The Nature of the Neutrino: Majorana vs. Dirac**  
*subgroup conveners: Steve Elliott, Lisa Kaufman*
- **Nu3: Absolute Neutrino Mass**  
*subgroup conveners: Hamish Robertson, Ben Monreal*
- **Nu4: Neutrino Interactions**  
*subgroup conveners: Jorge Morfin, Rex Tayloe*
- **Nu5: Anomalies and New Physics**  
*subgroup conveners: Boris Kayser, Jon Link*
- **Nu6: Astrophysical and Cosmological Neutrinos**  
*subgroup conveners: Kara Hoffman, Cecilia Lunardini, Nikolai Tolich*
- **Nu7: Neutrinos and Society**  
*subgroup conveners: Jose Alonso, Adam Bernstein*

# Neutrino Subgroup Deliverables for Snowmass

<http://www.snowmass2013.org/tiki-index.php?page=Neutrinos>

## Output:

1. ~50 (?) page writeup with section for each subgroup,  
written by subgroup conveners  
(similar to 2012 IF document)
2. ~6-8 page summary in IF ~30 page document,  
written by neutrino conveners

**83 one-page whitepapers received from community**

**General Snowmass whitepapers posted to arXiv  
may also be submitted– no page limit  
(or can resubmit one-pagers)**

## Many opportunities for feedback from community:

- March 6-7: [premeeting at SLAC](#), presentation of ideas and discussions
- Mid-April: first draft of neutrino working group document circulated to community for feedback
- April 23- May 1: first community comment period
- April 25-27: [Intensity Frontier Workshop at ANL](#), chance for feedback and discussion
- May 21 (target): second draft of neutrino working group document circulated to community for feedback
- May 21-June 15: second community comment period
- July 1: third draft of document circulated to community for feedback

first  
drafts  
posted:  
see  
twiki

we  
are  
here

Because we just had a workshop full of talks, for this meeting's parallel session we are having *only discussions*

(except one talk with physics news since the SLAC meeting)

Further feedback: email [if-neutrino-conveners@fnal.gov](mailto:if-neutrino-conveners@fnal.gov)

(This reaches all Nu1-Nu7 conveners)

# Panel Discussion Topics

**Overall Neutrino Physics Strategy**

**US Strategy Part I**

**Neutrino Theory Needs**

**Inter-Frontier Connections**

**Neutrinos and Society**

**US Strategy Part II**

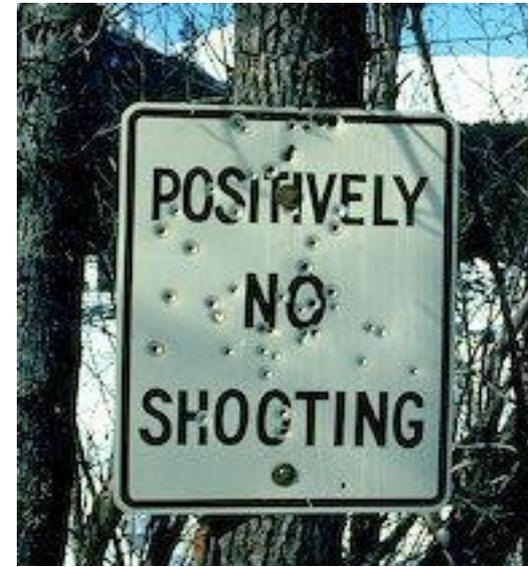
**International Coordination**

**panelists will  
comment,  
followed by  
open discussion**

**Questions developed by subgroup conveners w/  
feedback from panelists**

**Overflow session on Friday to extend  
extra-lively/unfinished discussion if needed**

**Please participate!**



# Special thanks to note-takers & runners!

**Xuebing Bu**

**Ben Carls**

**Maury Goodman**

**Mike Kordosky**

**Jim Maloney**

**Jyotsna Osta**

**David Webber**

**Eric Zimmerman**

**Additional note-takers for the panels  
very welcome! Any format OK--  
please email us your notes.**